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[Description - Vector Structure](#) (Correct)

VECTOR(BASE) VECTOR(BASE) NAME Vector -immutable, constant-time indexable sequences SYNOPSIS
www.il.uni.wroc.pl/~tomasz/smi/doc/manual/BASE.ps.gz

[COMEL: A Formal Model for COM](#) - Ibrahim (1998) (Correct) (2 citations)

COM interfaces and their specification are immutable -once made public, they can never be changed.

www.fit.qut.edu.au/~ibrahim/comel2.ps

[Improved BP Network Algorithm Based on Fuzzy Logic and..](#) - In Geophysics Meng (2000) (Correct)

down in recent years, for the costs of using an immutable BP network to simulate the relationship between

This kind of topological structure could not be optimized. Usually it appears no convergence or

Combining data training with fuzzy inference, it optimizes and adjusts the network, and defines the most

www.erudit.de/erudit/events/esit2000/proceedings/BC-02-4-P.pdf

[Form-based Software Composition](#) - Lumpe, Schneider (2003) (Correct)

To tackle this problem, we have defined forms, immutable extensible records, that allow for the

www.cs.iastate.edu/~leavens/SAVCBS/2003/papers/full-papers/lumpe-schneider.pdf

[Semantics of General References by a Hierarchy of Gödel..](#) - Ahmed, Appel, Virga (Correct)

transitions. For very simple type systems, with immutable references, no data structure creation, and no

semantic model of general references -that is, mutable memory cells that may contain values of any

www.cs.princeton.edu/~appel/papers/mutable.pdf

[Why Should Architectural Principles be Enforced?](#) - Minsky (Correct)

. 7 3.3 Making the Initial Law Immutable .

one can as easily model the analogue of a mutable constitution, in analogy to the constitution of

of the system, and that any discrepancies thus detected would be immediately corrected. It is our

www.cs.ruigers.edu/~minsky/papers/york.ps

[Formalization of Component Object Model \(COM\)](#) - The COMEL.. - Ibrahim, Szyperski (Correct)

COM interfaces and their specification are immutable -once made public, they can never be changed.

www.fit.qut.edu.au/~ibrahim/comelzip.ps.Z

[Measurement, Modeling, and Analysis of a..](#) - Gummadi, Dunn.. (2003) (Correct) (9 citations)

kilobytes for typical Web pages)they are immutable, and there are currently far fewer distinct

for classifying systems: immutable objects vs. mutable objects, and fetch-repeatedly clients vs.

"births" we could observe. Because there are no detectable birth events in our trace, we used the

www.cs.washington.edu/homes/tzooompy/publications/sosp/2003/p2p_cache.ps

[Distribution Strategies for Persistent Java](#) - Spence Department Of (1996) (Correct) (5 citations)

management is based on the use of typed# immutable objects combined with versioning. The

www.sun.ca/research/forest/UK.Ac.Gla.Dcs.PJW1.Susan_Spence2_pdf.pdf

[The Design and Implementation of Distributed, Disconnected..](#) - MacDonald (Correct)

available solutions are good. The property of an immutable media that makes its distribution acceptable is

ffl Network communication must be efficient, optimized for the particular problem, and secure. The

performance implications, and it is difficult to optimize its use, either automatically or with user

scam.xcf.berkeley.edu/~jmacd/procs2.ps

[Optimizing Object Invocation Using Optimistic..](#) - Inouye, Black.. (Correct)

an alternative solution. Objects can be assumed immutable and replicated on demand. Guards can be placed

i.e. guards do not require processor hardware to detect the invalidation of quasi-invariants. 2
and select the appropriate module. COOL [12] optimizes local invocation by making use of the C
ftp.cse.ogi.edu/pub/dsrg/synhelix/obj_inv.ps.gz

Object Directory Design Issues for a Distributed Shared.. - Mathew, Graham, Barker (1995) (Correct)
objects, must contain unique, systemwide, and immutable references to those objects. Object
www.cs.umanitoba.ca/~pgraham/papers/um_tr_9504.ps.gz

Peer-to-Peer Support for Massively Multiplayer Games - Knutsson, Lu, Xu, Hopkins (2004) (Correct)
(7 citations)

A typical multiplayer game world is made up of immutable landscape information (the terrain) characters
terrain) characters controlled by players (PCs) mutable objects such as food, tools, weapons, mutable
traffic, but incurs additional overhead for detecting lost or delayed messages. Players usually have
www.cis.upenn.edu/~hhl/Papers/infocom04.pdf

Exploratory Programming Of Distributed 3D Graphics Applications - MacIntyre (2000) (Correct)
assigned to a property value) but are treated as immutable objects. Therefore, changing a behavior objects
support for rooms, objects, avatars, collision detection, and other things needed in single, shared,
www.cc.gatech.edu/~blair/papers/pdcp00.pdf

Supporting Multidimensional Arrays in Java - Moreira, Midkiff, Gupta (2001) (Correct)
The type, rank, and shape of a multiarray are immutable during its lifetime. We will see that this
become more sophisticated (than current JVMs) to detect the denseness property of arrays automatically.
In contrast, the technology to analyze and optimize code that manipulates rectangular, fixed shape
aspen.ucs.indiana.edu/CandCPandE/jg2001/C568moreira/c568paper.pdf

A Declarative Approach to Run-Time Code Generation - Mark Leone (1996) (Correct) (18 citations)
data structures in ML programs are almost always immutable, so values may be freely copied by an
like ML because unrestricted aliasing and mutable data structures require program analyses to be
amortizes the cost of dynamic safety checks and optimizes across abstraction boundaries. Most previous
www.cs.cmu.edu/afs/cs.cmu.edu/user/mleone/papers/declarative-rtcg.ps

Uniform, Versatile and Efficient Dense and Sparse.. - Hoschek (2000) (Correct)
a single value. They can be characterized by immutability (the number of dimensions or axes)
throwing any exception, virtually transparently detection, virtually transparently small/large matrix
thus tend to be less efficient than toolkits fully optimized for a given architecture. On the other hand
www.cern.ch/CERN/Divisions/EP/HL/Papers/ACMJava2000.pdf

Exploiting Network Locality in a Decentralized Read-write.. - Picconi, Busca, Sens (2004) (Correct)
the inode is stored. Data blocks are stored in immutable Content-Hash Blocks (CHB) so that their
system history, which greatly simplifies conflict detection and resolution. However, since each Ivy user
also takes into account network locality to optimize replica location. Locality management is
www-src.lip6.fr/homepages/Pierre.Sens/publications/icpads04.ps.gz

Ownership Types for Object Encapsulation - Boyapati, Liskov, Shriram (2003) (Correct) (13 citations)
the identities never change. Similarly, a Set of immutable elements does not depend on the elements even
methods of y and furthermore these calls expose mutable behavior of y in a way that affects the
[30] C. Flanagan and S. N. Freund. Type-based race detection for Java. In Programming Language Design and
www.eecs.umich.edu/~bchandra/publications/popl03.pdf

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